

JB

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/537,731
Source: per
Date Processed by STIC: 7/3/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/537,731

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If **intentional**, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



PCT

RAW SEQUENCE LISTING

DATE: 07/03/2006

PATENT APPLICATION: US/10/537,731

TIME: 11:56:39

Input Set : Z:\3874 PTUS sequence listing.txt

Output Set: N:\CRF4\07032006\J537731.raw

3 <110> APPLICANT: SALIMBENI, Aldo et al
 5 <120> TITLE OF INVENTION: Process for the preparation of bicyclic hexa-peptide
 nepadutant

7 <130> FILE REFERENCE: 3874PTUS
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/537,731

C--> 10 <141> CURRENT FILING DATE: 2005-06-06
 12 <150> PRIOR APPLICATION NUMBER: FI2002A000239

*see
pp 1, 6*

**Does Not Comply
Corrected Diskette Needed**

13 <151> PRIOR FILING DATE: 2002-06-12
 15 <160> NUMBER OF SEQ ID NOS: 11
 17 <170> SOFTWARE: PatentIn version 3.3

19 <210> SEQ ID NO: 1

20 <211> LENGTH: 5

21 <212> TYPE: PRT

22 <213> ORGANISM: pentapeptide

*invalid response -
see item 10 on
Err summary sheet*

25 <220> FEATURE:

26 <221> NAME/KEY: BINDING

27 <222> LOCATION: (1)..(1)

28 <223> OTHER INFORMATION: Asp is bound to a benzyloxycarbonyl group

30 <220> FEATURE:

31 <221> NAME/KEY: MISC_FEATURE

32 <222> LOCATION: (4)..(4)

33 <223> OTHER INFORMATION: X is Dpr (i.e. 2,3-diaminopropionic acid)

35 <220> FEATURE:

36 <221> NAME/KEY: MOD_RES

37 <222> LOCATION: (5)..(5)

38 <223> OTHER INFORMATION: METHYLATION

40 <400> SEQUENCE: 1

W--> 42 Asp Trp Phe Xaa Leu

43 1. 5

46 <210> SEQ ID NO: 2

47 <211> LENGTH: 5

48 <212> TYPE: PRT

49 <213> ORGANISM: Artificial Sequence

51 <220> FEATURE:

52 <223> OTHER INFORMATION: cyclic pentapeptide

55 <220> FEATURE:

56 <221> NAME/KEY: BINDING

57 <222> LOCATION: (1)..(1)

58 <223> OTHER INFORMATION: Asp is bound to a benzyloxycarbonyl group

60 <220> FEATURE:

61 <221> NAME/KEY: SITE

62 <222> LOCATION: (1)..(4)

63 <223> OTHER INFORMATION: Asp and Dpr are bound together to form a cycle

65 <220> FEATURE:

RAW SEQUENCE LISTING

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Input Set : E:\3874 PTUS sequence listing.txt

Output Set: N:\CRF4\07032006\J537731.raw

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66 <221> NAME/KEY: MISC_FEATURE
67 <222> LOCATION: (4)..(4)
68 <223> OTHER INFORMATION: X is Dpr (i.e. 2,3-diaminopropionic acid)
70 <220> FEATURE:
71 <221> NAME/KEY: MOD_RES
72 <222> LOCATION: (5)..(5)
73 <223> OTHER INFORMATION: METHYLATION
75 <400> SEQUENCE: 2
W--> 77 Asp Trp Phe Xaa Leu
78 1 5
81 <210> SEQ ID NO: 3
82 <211> LENGTH: 5
83 <212> TYPE: PRT
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: cyclic pentapeptide
90 <220> FEATURE:
91 <221> NAME/KEY: BINDING
92 <222> LOCATION: (1)..(1)
93 <223> OTHER INFORMATION: Asp is bound to a benzyloxycarbonyl group
95 <220> FEATURE:
96 <221> NAME/KEY: SITE
97 <222> LOCATION: (1)..(4)
98 <223> OTHER INFORMATION: Asp and Dpr are bound together to form a cycle
100 <220> FEATURE:
101 <221> NAME/KEY: MISC_FEATURE
102 <222> LOCATION: (4)..(4)
103 <223> OTHER INFORMATION: X is Dpr (i.e. 2,3-diaminopropionic acid)
105 <400> SEQUENCE: 3
W--> 107 Asp Trp Phe Xaa Leu
108 1 5
111 <210> SEQ ID NO: 4
112 <211> LENGTH: 6
113 <212> TYPE: PRT
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: cyclic hexapeptide
120 <220> FEATURE:
121 <221> NAME/KEY: BINDING
122 <222> LOCATION: (1)..(1)
123 <223> OTHER INFORMATION: Asp is bound to a benzyloxycarbonyl group and to a tert-
butyl
124 group
126 <220> FEATURE:
127 <221> NAME/KEY: SITE
128 <222> LOCATION: (2)..(5)
129 <223> OTHER INFORMATION: Asp and Dpr are bound together to form a cycle
131 <220> FEATURE:
132 <221> NAME/KEY: MISC_FEATURE
133 <222> LOCATION: (5)..(5)

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RAW SEQUENCE LISTING

DATE: 07/03/2006

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Input Set : E:\3874 PTUS sequence listing.txt

Output Set: N:\CRF4\07032006\J537731.raw

```

134 <223> OTHER INFORMATION: X is Dpr (i.e. 2,3-aminopropionic acid)
136 <400> SEQUENCE: 4
W--> 138 Asp Asp Trp Phe Xaa Leu
139 1 5
142 <210> SEQ ID NO: 5
143 <211> LENGTH: 6
144 <212> TYPE: PRT
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: bicyclic hexapeptide
151 <220> FEATURE:
152 <221> NAME/KEY: SITE
153 <222> LOCATION: (1)..(6)
154 <223> OTHER INFORMATION: Asp and Leu are bound together to form a cycle .
156 <220> FEATURE:
157 <221> NAME/KEY: BINDING
158 <222> LOCATION: (1)..(1)
159 <223> OTHER INFORMATION: Asp is bound to a tert-butyl group
161 <220> FEATURE:
162 <221> NAME/KEY: SITE
163 <222> LOCATION: (2)..(4)
164 <223> OTHER INFORMATION: Asp and Dpr are bound together to form a cycle
166 <220> FEATURE:
167 <221> NAME/KEY: MISC_FEATURE
168 <222> LOCATION: (5)..(5)
169 <223> OTHER INFORMATION: X is Dpr (i.e. 2,3-diaminopropionic acid)
171 <400> SEQUENCE: 5
W--> 173 Asp Asp Trp Phe Xaa Leu
174 1 5
177 <210> SEQ ID NO: 6
178 <211> LENGTH: 6
179 <212> TYPE: PRT
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: bicyclic hexapeptide
186 <220> FEATURE:
187 <221> NAME/KEY: SITE
188 <222> LOCATION: (1)..(6)
189 <223> OTHER INFORMATION: Asp and Leu are bound together to form a cycle
191 <220> FEATURE:
192 <221> NAME/KEY: SITE
193 <222> LOCATION: (2)..(5)
194 <223> OTHER INFORMATION: Asp and Dpr are bound together to form a cycle
196 <220> FEATURE:
197 <221> NAME/KEY: MISC_FEATURE
198 <222> LOCATION: (5)..(5)
199 <223> OTHER INFORMATION: X is Dpr (i.e. 2,3-diaminopropionic acid)
201 <400> SEQUENCE: 6
W--> 203 Asp Asp Trp Phe Xaa Leu

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RAW SEQUENCE LISTING

DATE: 07/03/2006

PATENT APPLICATION: US/10/537,731

TIME: 11:56:39

Input Set : E:\3874 PTUS sequence listing.txt

Output Set: N:\CRF4\07032006\J537731.raw

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204 1          5
207 <210> SEQ ID NO: 7
208 <211> LENGTH: 6
209 <212> TYPE: PRT
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: bicyclic glycopeptide
216 <220> FEATURE:
217 <221> NAME/KEY: SITE
218 <222> LOCATION: (1)..(6)
219 <223> OTHER INFORMATION: Asp and Leu are bound together to form a cycle
221 <220> FEATURE:
222 <221> NAME/KEY: CARBOHYD
223 <222> LOCATION: (1)..(1)
224 <223> OTHER INFORMATION: Asp is bound to
225     2-acetamide-3,4,6-tri-O-acetyl-2-deoxy-beta-D-glucopyranosylamine
227 <220> FEATURE:
228 <221> NAME/KEY: SITE
229 <222> LOCATION: (2)..(5)
230 <223> OTHER INFORMATION: Asp and Dpr are bound together to form a cycle
232 <220> FEATURE:
233 <221> NAME/KEY: MISC_FEATURE
234 <222> LOCATION: (5)..(5)
235 <223> OTHER INFORMATION: X is Dpr (i.e. 2,3-diaminopropionic acid)
237 <400> SEQUENCE: 7

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W--> 239 Asp Asp Trp Phe Xaa Leu

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240 1          5
243 <210> SEQ ID NO: 8
244 <211> LENGTH: 6
245 <212> TYPE: PRT
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: bicyclic glycopeptide
252 <220> FEATURE:
253 <221> NAME/KEY: SITE
254 <222> LOCATION: (1)..(6)
255 <223> OTHER INFORMATION: Asp and Leu are bound together to form a cycle
257 <220> FEATURE:
258 <221> NAME/KEY: CARBOHYD
259 <222> LOCATION: (1)..(1)
260 <223> OTHER INFORMATION: Asp is bound to 2-acetamide-2-deoxy-beta-D-
glucopyranosylamine
262 <220> FEATURE:
263 <221> NAME/KEY: SITE
264 <222> LOCATION: (2)..(5)
265 <223> OTHER INFORMATION: Asp and Dpr are bound together to form a cycle
267 <220> FEATURE:
268 <221> NAME/KEY: MISC_FEATURE
269 <222> LOCATION: (5)..(5)
270 <223> OTHER INFORMATION: X is Dpr (i.e. 2,3-diaminopropionic acid)

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RAW SEQUENCE LISTING

DATE: 07/03/2006

PATENT APPLICATION: US/10/537,731

TIME: 11:56:39

Input Set : E:\3874 PTUS sequence listing.txt

Output Set: N:\CRF4\07032006\J537731.raw

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272 <400> SEQUENCE: 8
W--> 274 Asp Asp Trp Phe Xaa Leu
275 1      5
278 <210> SEQ ID NO: 9
279 <211> LENGTH: 4
280 <212> TYPE: PRT
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: tetrapeptide
287 <220> FEATURE:
288 <221> NAME/KEY: BINDING
289 <222> LOCATION: (1)..(1)
290 <223> OTHER INFORMATION: Trp is bound to a benzyloxycarbonyl group
292 <220> FEATURE:
293 <221> NAME/KEY: MISC_FEATURE
294 <222> LOCATION: (3)..(3)
295 <223> OTHER INFORMATION: X is Dpr (i.e. 2,3-diaminopropionic acid)
297 <220> FEATURE:
298 <221> NAME/KEY: BINDING
299 <222> LOCATION: (3)..(3)
300 <223> OTHER INFORMATION: Dpr is bound to a tert-butoxycarbonyl group
302 <220> FEATURE:
303 <221> NAME/KEY: MOD_RES
304 <222> LOCATION: (4)..(4)
305 <223> OTHER INFORMATION: METHYLATION
307 <400> SEQUENCE: 9
W--> 309 Trp Phe Xaa Leu
310 1
313 <210> SEQ ID NO: 10
314 <211> LENGTH: 4
315 <212> TYPE: PRT
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: tetrapeptide
322 <220> FEATURE:
323 <221> NAME/KEY: MISC_FEATURE
324 <222> LOCATION: (3)..(3)
325 <223> OTHER INFORMATION: X is Dpr (i.e. 2,3-diaminopropionic acid)
327 <220> FEATURE:
328 <221> NAME/KEY: BINDING
329 <222> LOCATION: (3)..(3)
330 <223> OTHER INFORMATION: Dpr is bound to a tert-butoxycarbonyl group
332 <220> FEATURE:
333 <221> NAME/KEY: MOD_RES
334 <222> LOCATION: (3)..(3)
335 <223> OTHER INFORMATION: METHYLATION
337 <400> SEQUENCE: 10
W--> 339 Trp Phe Xaa Leu
340 1

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/537,731

DATE: 07/03/2006
TIME: 11:56:40

Input Set : E:\3874 PTUS sequence listing.txt
Output Set: N:\CRF4\07032006\J537731.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 4 ✓
Seq#:2; Xaa Pos. 4 ✓
Seq#:3; Xaa Pos. 4 ✓
Seq#:4; Xaa Pos. 5 ✓
Seq#:5; Xaa Pos. 5 ✓
Seq#:6; Xaa Pos. 5 ✓
Seq#:7; Xaa Pos. 5 ✓
Seq#:8; Xaa Pos. 5 ✓
Seq#:9; Xaa Pos. 3 ✓
Seq#:10; Xaa Pos. 3 ✓
Seq#:11; Xaa Pos. 4 ✓

VERIFICATION SUMMARY

DATE: 07/03/2006

PATENT APPLICATION: US/10/537,731

TIME: 11:56:40

Input Set : E:\3874 PTUS sequence listing.txt

Output Set: N:\CRF4\07032006\J537731.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0